

GV-N26-896H-B/ GV-N26OC-896H-B/ GV-N26OC-896H

NVIDIA® GeForce™ GTX 260 Graphics Accelerator

User's Manual

Rev. 103

12MM-NX268B-103R

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Declaration of Conformity

Via, Manufacturer/Importer

O.B.T. Technology Trading GmbH

Bullhkopfstr. 16, 22047 Hamburg, Germany

(description of the apparatus, system, installation to which it refers)

VGA Card

GV-N26-596H-B

(reference to the specification under which conformity is declared)

In accordance with 89/338 EEC-EMC Directive

<input type="checkbox"/> EN 55011	Limits and methods of measurement of radio disturbance characteristics of radio transmitting apparatus (RTA) and high frequency equipment	<input checked="" type="checkbox"/> EN 61000-3-2	Disturbances in supply systems caused by household appliances and similar electrical equipment "Voltage fluctuations"
<input type="checkbox"/> EN 55013	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment	<input checked="" type="checkbox"/> EN 55024	Information Technology equipment-immunity characteristics-Limits and methods of measurement
<input type="checkbox"/> EN 55014-1	Limits and methods of measurement of radio disturbance characteristics of portable tools and similar electrical apparatus	<input type="checkbox"/> EN 55032-1	Generic immunity standard Part 1: Radiatic, commercial and light industry industrial environment
<input type="checkbox"/> EN 55015	Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaires	<input type="checkbox"/> EN 55014-2	Immunity requirements for household appliances tools and similar apparatus
<input type="checkbox"/> EN 55020	Immunity from radio interference of broadcast receivers and associated equipment	<input type="checkbox"/> EN 55019-2	EMC requirements for uninterruptible power systems (UPS)
<input checked="" type="checkbox"/> EN 55022	Limits and methods of measurement of radio disturbance characteristics of information technology equipment		
<input type="checkbox"/> DIN VDE 0885 part 10	Cabled distribution system, Equipment for receiving and/or distribution from sound and television signals		
<input type="checkbox"/> EN 60535	Safety requirements for mains operated household and similar general use electrical appliances	<input type="checkbox"/> EN 50091-1	General and safety requirements for uninterruptible power systems (UPS)



(EC conformity marking)

The manufacturer also declares the conformity of above mentioned product with the actual required safety standards in accordance with UN 308594545

☒ EN 60950

Safety for information technology equipment including electrical business equipment

Manufacturer/Importer

Signature :

Timmy Huang

(Stamp)

Date: Jun. 5, 2008

Name :

Timmy Huang

DECLARATION OF CONFORMITY

Per FCC Part 2, Section 2.1077(a)



Responsible Party Name: G.B.T. INC. (U.S.A.)

Address: 17358 Railroad Street

City of Industry, CA 91748

Phone/Fax No: (818) 854-9338/ (818) 854-9339

hereby declares that the product

Product Name: VGA Card

Model Number: GV-N26-896H-B

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109

(a), Class B Digital Device

Supplementary Information:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful and (2) this device must accept any interference received, including that may cause undesired operation.

Representative Person's Name: ERIC LU

Signature: Eric Lu

Date: Jun. 5, 2008

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(description of the apparatus, system, installation to which it refers)

VGA Card

GV-N260C-896H

(reference to the specification under which conformity is declared)

In accordance with 89/338 EEC/EMC Directive

<input type="checkbox"/> EN 55011	Limits and methods of measurement of radio disturbance characteristics of radio equipment (RE) and of high frequency equipment	<input checked="" type="checkbox"/> EN 61000-3-2	Disturbances in supply systems caused by harmonics in supply systems caused by household appliances and similar electrical equipment "Voltage fluctuations"
<input type="checkbox"/> EN 55013	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment	<input checked="" type="checkbox"/> EN 55024	Information Technology equipment-immunity characteristics-Limits and methods of measurement
<input type="checkbox"/> EN 55014-1	Limits and methods of measurement of radio disturbance characteristics of portable tools and similar electrical apparatus	<input type="checkbox"/> EN 55032-1	Generic immunity standard Part 1: Radiated, commercial and light industry
<input type="checkbox"/> EN 55015	Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaires	<input type="checkbox"/> EN 55014-2	Immunity requirements for household appliances tools and similar apparatus
<input type="checkbox"/> EN 55020	Immunity from radio interference of broadcast receivers and associated equipment	<input type="checkbox"/> EN 55014-2	EMC requirements for uninterruptible power systems (UPS)
<input checked="" type="checkbox"/> EN 55022	Limits and methods of measurement of radio disturbance characteristics of information technology equipment		
<input type="checkbox"/> DIN VDE 0885 part 10	Cabled distribution system, Equipment for receiving and/or distribution from sound and television signals		
<input type="checkbox"/> EN 60535	Safety of household and similar electrical appliances	<input type="checkbox"/> EN 50091-1	General and safety requirements for uninterruptible power systems (UPS)
<input type="checkbox"/> EN 60936	Safety requirements for mains operated equipment and similar general use household and similar general use	<input checked="" type="checkbox"/> EN 60950	Safety for information technology equipment including electrical business equipment
<input checked="" type="checkbox"/> CE marking			



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Manufacturer/Importer

Signature :

Timmy Huang

(Stamp)

Date: Sept. 1, 2008

Name :

Timmy Huang

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Responsible Party Name: G.B.T. INC. (U.S.A.)

Address: 17358 Railroad Street

City of Industry, CA 91748

Phone/Fax No: (818) 854-9338/ (818) 854-9339

hereby declares that the product

Product Name: VGA Card

Model Number: GV-N260C-896H

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109

(a), Class B Digital Device

Supplementary Information:

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Representative Person's Name: ERIC LU

Signature: Eric Lu

Date: Sept. 1, 2008

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declare that the product

(description of the apparatus, system, installation to which it refers)

VGA Card

CV 1260C-896H

(reference to the specification under which conformity is declared)

In accordance with 89/338 EEC/EMC Directive

<input type="checkbox"/> EN 55011	Limits and methods of measurement of radio disturbance characteristics of radio transmitting apparatus (RTA) high frequency equipment	<input checked="" type="checkbox"/> EN 61000-3-2	Disturbances in supply systems caused by household appliances and similar electrical equipment "Voltage fluctuations"
<input type="checkbox"/> EN 55013	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment	<input checked="" type="checkbox"/> EN 55024	Information Technology equipment-immunity characteristics-Limits and methods of measurement
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<input type="checkbox"/> EN 55020	Immunity from radio interference of broadcast receivers and associated equipment	<input type="checkbox"/> EN 50074-2	EMC requirements for uninterruptible power systems (UPS)
<input checked="" type="checkbox"/> EN 55022	Limits and methods of measurement of radio disturbance characteristics of information technology equipment		
<input type="checkbox"/> DIN VDE 0885 part 10	Cabled distribution system, Equipment for receiving and/or distribution from sound and television signals		
<input type="checkbox"/> EN 60535	Safety of household and similar electrical appliances	<input type="checkbox"/> EN 50091-1	General and Safety requirements for uninterruptible power systems (UPS)



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☐ EN 60936

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(Stamp)

Date: Mar 19, 2009

Name: Timmy Huang

Manufacturer/Importer

Signature:

Timmy Huang

DECLARATION OF CONFORMITY

Per FCC Part 2, Section 2.1077(a)



Responsible Party Name: G.B.T. INC. (U.S.A.)

Address: 17358 Railroad Street

City of Industry, CA 91748

Phone/Fax No: (818) 854-9338/ (818) 854-9339

hereby declares that the product

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Model Number: GV-N260C-896H

Conforms to the following specifications:

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(a), Class B Digital Device

Supplementary Information:

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Representative Person's Name: ERIC LU

Signature: Eric Lu

Date: Mar 19, 2009

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(Note) This item will show up when you connect two monitors.

1. Introduction

1.1. Features

- Powered by **NVIDIA® GeForce™ GTX 260** Graphics Processing Unit (GPU)
- Supports PCI Express 2.0
- Integrated with 896 MB GDDR3 memory
- Supports DirectX 10
- Supports NVIDIA® SLI™ (Scalable Link Interface) technology^(Note 1)
- Supports 2 DVI-I connectors
- Supports HDTV output (by optional adapter)
- Supports HDMI connector (by adapter, for GV-N26OC-896H-B only)
- Supports 1 D-Sub connectors (by adapter)
- Supports HDCP (High-Bandwidth Digital Content Protection) technology

1.2. Minimum System Requirements

- **Hardware**
 - 500-watt power supply or greater with minimum 12V current rating of 36A.^(Note 2)
 - Intel® Pentium®/Core™ 2 or AMD Athlon™/Phenom™
 - 512 MB of system memory; 2 GB or more for best performance
 - Optical drive for software installation (CD-ROM or DVD-ROM drive)
- **Operating System**
 - Windows® Vista
 - Windows® XP with Service Pack 2 (SP2)
 - Windows® XP Professional x64 Edition

- **SLI™ Configuration**

If you are planning on using this graphics card as part of an SLI system, the following are required:

- An SLI certified motherboard with two/three PCIe x16 slots and correct chipset driver
- Two GV-N26-896H-B/GV-N26OC-896H-B/GV-N26OC-896H for SLI configuration;
Three GV-N26-896H-B/GV-N26OC-896H-B/GV-N26OC-896H for 3-way SLI configuration
- A power supply with 900-watt or above is recommended
- An SLI bridge connector or 3-way SLI bridge connector

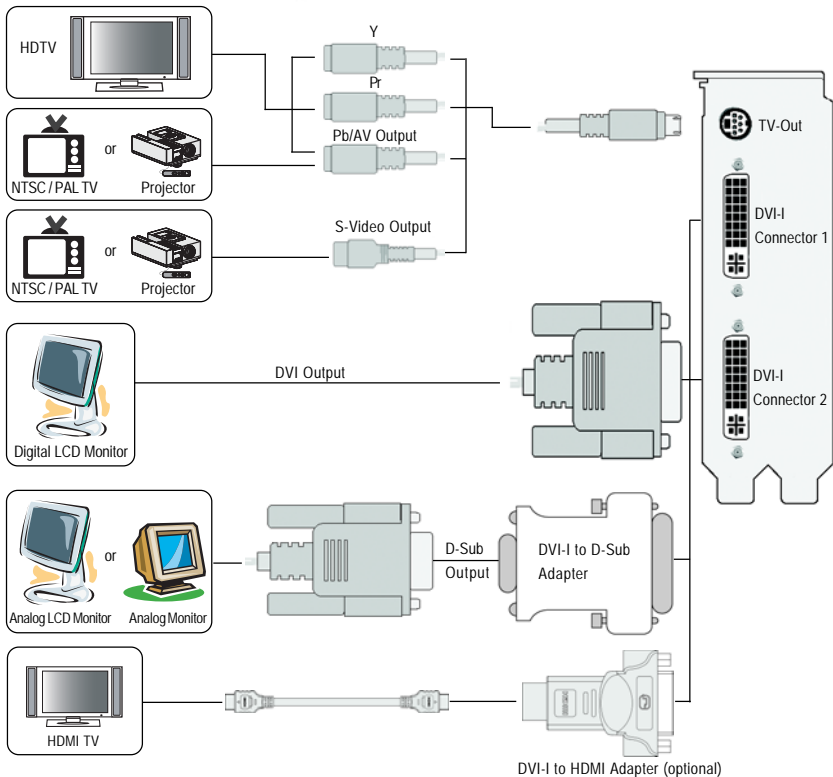
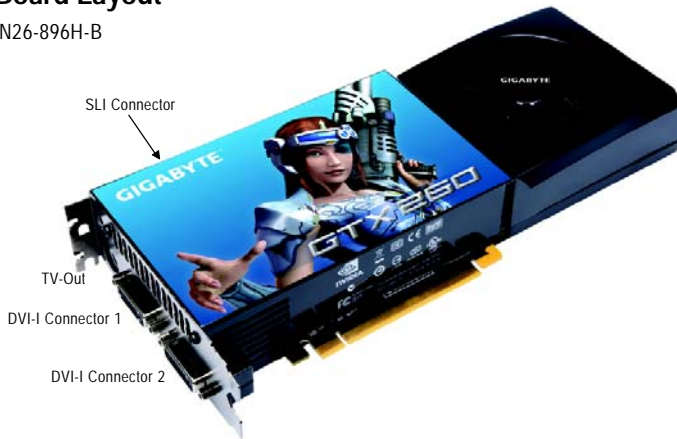
(Note 1) SLI technology requires a PCI Express motherboard with two/three x16 physical connectors. Graphics cards working in an SLI configuration must be with the same model name (e.g. GV-N26-896H-B/GV-N26OC-896H-B/GV-N26OC-896H) and from the same vendor (e.g. GIGABYTE TECHNOLOGY).

(Note 2) The minimum system power requirement recommended here is based on a PC configured with an Intel Core 2 Extreme processor (QX6700).

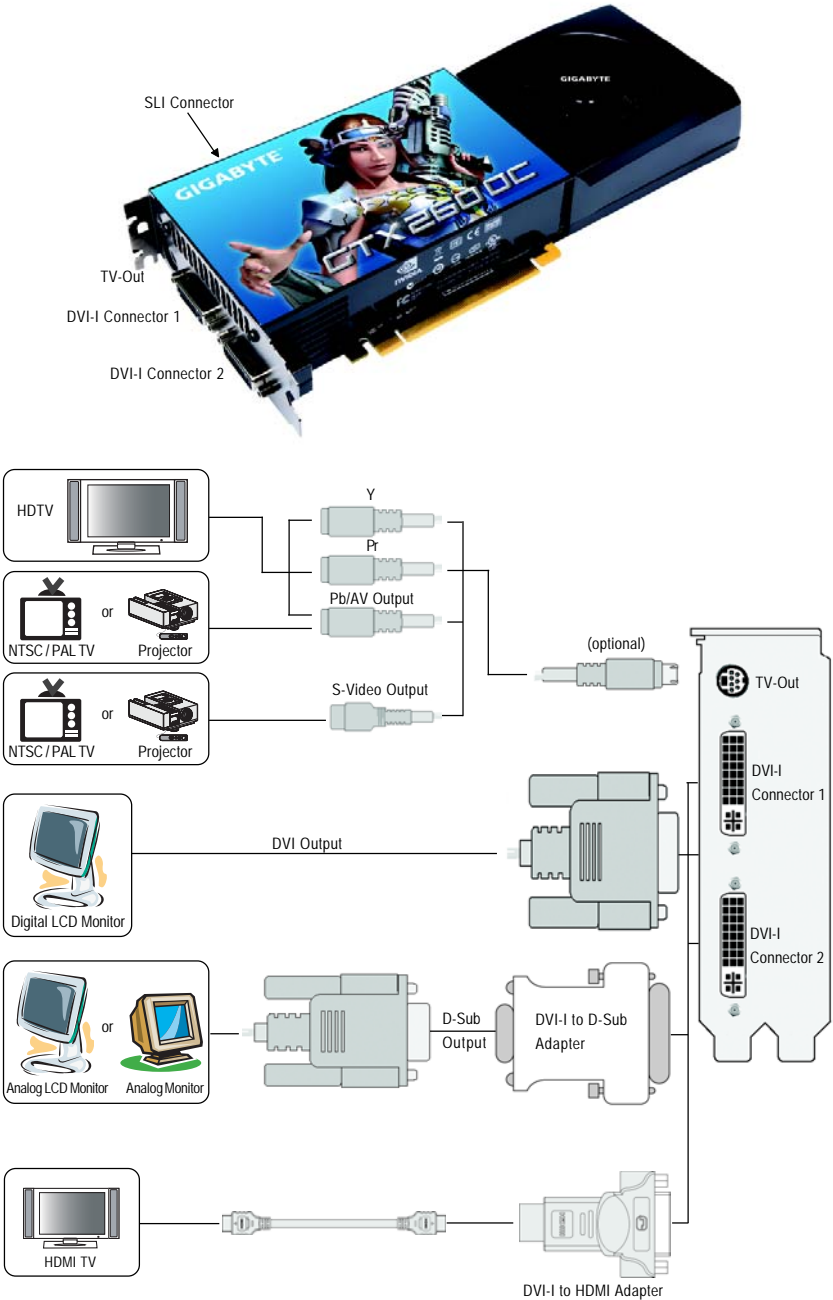
2. Hardware Installation

2.1. Board Layout

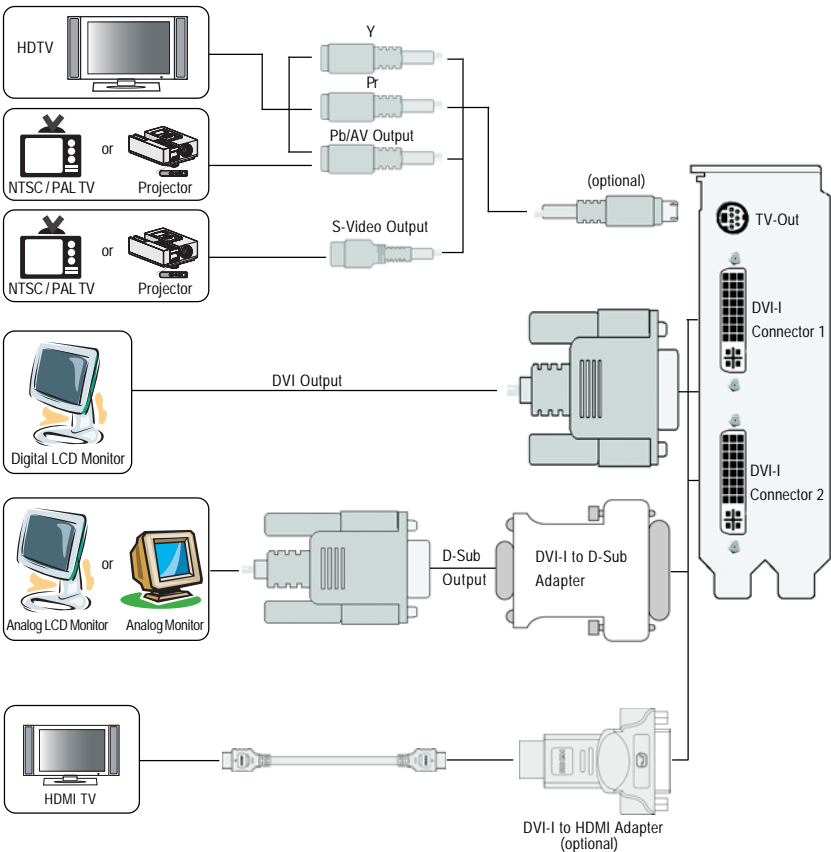
1. GV-N26-896H-B



2. GV-N26OC-896H-B



3. GV-N260C-896H



The GV-N26-896H-B/GV-N26OC-896H-B/GV-N26OC-896H graphics card is a performance optimized high-end card. Power is taken from the PCI Express host bus as well as the two 6-pin PCI Express power connectors.

Without auxiliary power provided to the GV-N26-896H-B/GV-N26OC-896H-B/GV-N26OC-896H- graphics card, an LED on the bracket goes red and the graphics card will not boot. In addition, the connector that is not adequately powered will turn red.

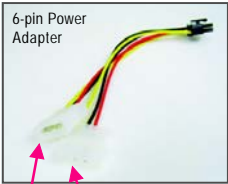
The table below outlines the different possible scenarios as well as the resulting behaviors.

Configuration with External PCIe Connectors:

6-pin PCIe Power Connector (upper)	6-pin PCIe Power Connector (lower)	Result
Connected	Connected	Full Power
Not Connected	Connected	LED light is red- graphics card will not boot
Connected	Not Connected	LED light is red- graphics card will not boot
Not Connected	Not Connected	LED light is red- graphics card will not boot

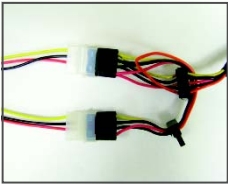


If you want to use the included 6-pin power adapters, make sure at least 12V/15A current is supplied to each 4-pin power connector on the adapters. Failure to do so may jeopardize the stability of the graphics card.

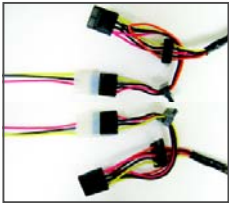


Requires at least 12V current rating of 15A

Requires at least 12V current rating of 15A



Incorrect Connection
(The two 4-pin power connectors on the adapter are connected to the same system power supply cable.)



Correct Connection
(The two 4-pin power connectors on the adapter are connected to two independent system power supply cables.)



Expansion cards contain very delicate Integrated Circuit (IC) chips. To protect them against damage from static electricity, you should follow some precautions whenever you work on your computer.

1. Turn off your computer and unplug power supply.
2. Use a grounded wrist strap before handling computer components. If you do not have one, touch both of your hands to a safely grounded object or to a metal object, such as the power supply case.
3. Place components on a grounded antistatic pad or on the bag that came with the components whenever the components are separated from the system.

The card contains sensitive electric components, which can be easily damaged by static electricity, so the card should be left in its original packing until it is installed.

Unpacking and installation should be done on a grounded anti-static mat. The operator should be wearing an anti-static wristband, grounded at the same point as the anti-static mat.

Inspect the card carton for obvious damage. Shipping and handling may cause damage to your card. Be sure there are no shipping and handling damages on the card before proceeding.

⚡ **DO NOT APPLY POWER TO YOUR SYSTEM IF THE GRAPHICS CARD IS DAMAGED.**

⚡ **In order to ensure that your graphics card can work correctly, please use official GIGABYTE BIOS only. Using non-official GIGABYTE BIOS might cause problem(s) on the graphics card.**

2.2. Hardware Installation

Now that you have prepared your computer, you are ready to install your graphics card.

Step 1.

Locate the PCI Express x16 slot. If necessary, remove the metal cover from this slot; then align your graphics card with the PCI Express x16 slot, and press it in firmly until the card is fully seated.



Make sure that the gold edge connector of the graphics card is securely inserted.



Step 2.

Replace the screw to fasten the card in place, and replace the computer cover.



After installation, remember to connect the power cable to your graphics card, or the system will not boot (refer to page 8 to see the details). Do not touch the card when it's operating to prevent system instability.



Step 3.

This graphics card provides two DVI-I digital connectors. You can connect a monitor that supports DVI-I function or use the DVI-I to D-Sub adapter to connect a 15-pin D-Sub monitor. Or use the DVI-I to HDMI adapter to connect an HDMI monitor.



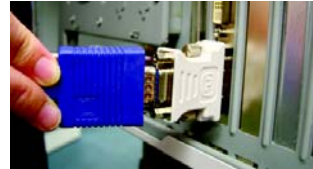
To TV / VCR



To Flat Panel Display



Connect a flat panel



Connect a D-Sub monitor via DVI-I to D-Sub adapter



Connect a HDMI monitor via DVI-I to HDMI adapter

Step 4.

To connect an HDMI TV, use either Method A or Method B below (depending on your motherboard design) to enable the S/PDIF in function for the graphics card. It is recommended Method A be used on motherboards that have a free S/PDIF header.

Method A (via the S/PDIF out header):

Connect the provided S/PDIF cable to the graphics card and the S/PDIF out header on your motherboard (the red wire connects to the S/PDIF out pin and the black to the Ground pin).



A-1.

Connect the S/PDIF cable to the graphics card



A-2.

Connect the S/PDIF cable to the motherboard.

Method B (via the coaxial S/PDIF out jack):

Connect the GIGABYTE video adapter to the TV-Out port on the graphics card. Insert one end of the SPDIF coaxial cable (optional) into the S/PDIF in jack on the adapter and the other end into the coaxial S/PDIF out jack on your motherboard.



B-1.

Connect the GIGABYTE video adapter to the TV-Out port on the graphics card

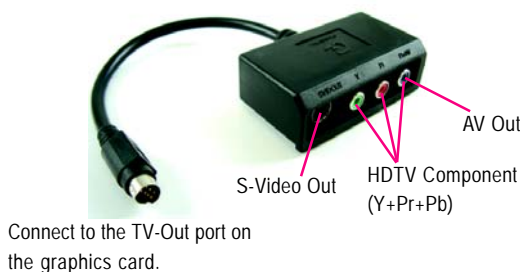


B-2.

Connect the SPDIF coaxial cable (optional) to the video adapter and motherboard

You are now ready to proceed with the installation of the graphics card driver. Please refer to next chapter for detailed instructions.

GIGABYTE Video Adapter (optional item)



(1) Connecting HDTV

Connect your HDTV cables to the video adapter according to the corresponding color.

(Y= Green, Pr= Red, Pb= Blue)



(2) Connecting S-Video

If your TV has a S-Video connection, connect the S-Video cable from your TV to the S-Video Out port on the adapter.



(3) Connecting AV Output

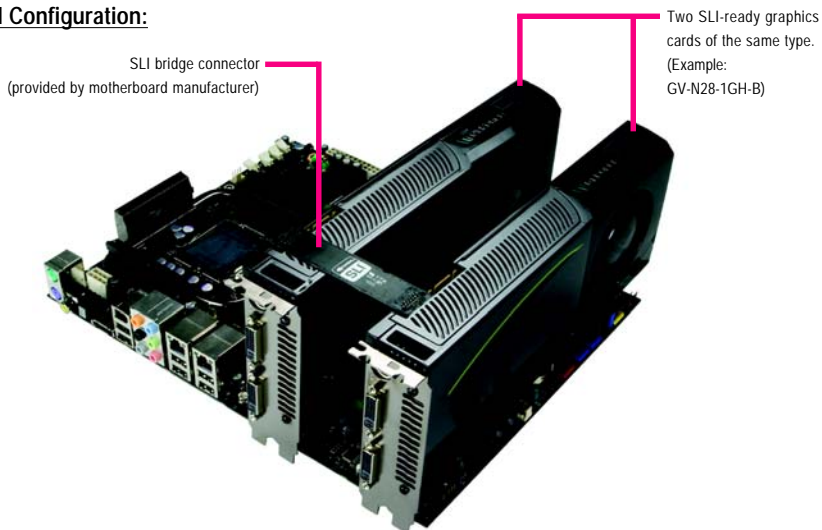
If your TV has a Composite video connection, you can connect the RCA cable from your TV to the AV Out port on the adapter.



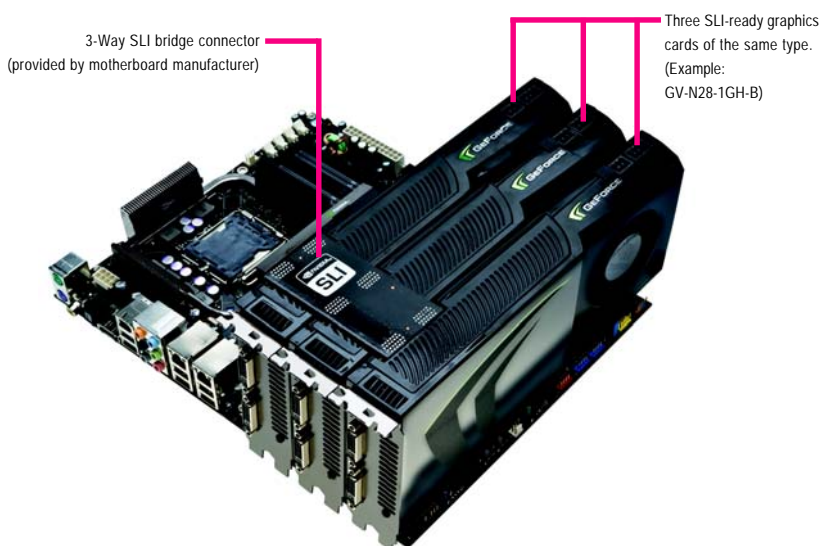
How NVIDIA® SLI™ (Scalable Link Interface) technology works:

In an SLI configuration, two/three SLI-ready graphics cards of the same model and the same manufacturers are connected together via SLI bridge connector in a system that provides two/three x16 PCI Express slots to scale graphics performance. The picture below shows that two and three graphics cards are linked in parallel in an SLI configuration.

SLI Configuration:



3-Way SLI Configuration:



3. Software Installation

In this manual, we assume that your CD-ROM drive letter to be Drive D:

The installation of drivers is very simple. When you insert the driver CD into your CD-ROM drive, you can see the autorun window (if it does not show up, run "D:\setup.exe"). Then you can follow the instructions to setup your graphics card driver. (Please follow the subsection "3.1.3 Driver Installation" to install the driver for your graphics card.)

3.1. Windows® XP Driver and Utilities Installation

3.1.1. Operating System Requirements

Notice the following guidelines before installing the drivers:

1. First make sure your system has installed DirectX 9.0c or later version.
2. Make sure your system has installed the appropriate motherboard drivers (for the motherboard drivers, please contact the motherboard manufacturer.)

3.1.2. DirectX Installation

Install Microsoft DirectX to enable 3D hardware acceleration support for Windows XP to achieve better 3D performance.

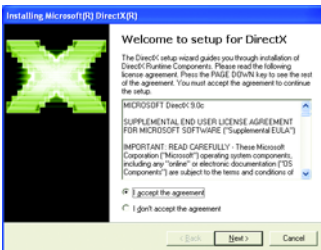


For software MPEG support in Windows XP, you must install DirectX first. Users who run Windows XP with Service Pack 2 or above do not need to install DirectX separately.

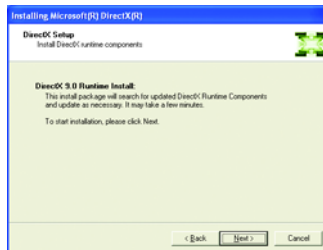


Step 1.

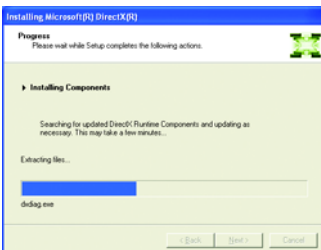
When the autorun window shows up, click the **Install DirectX 9** item.



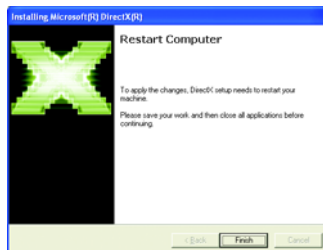
Step 2. Choose **I accept the agreement** and click the **Next** button.



Step 3. Click the **Next** button.



The system is installing the components.



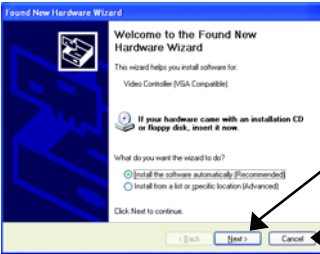
Step 4. Click **Finish** to restart computer. Then the DirectX 9 installation is completed.

3.1.3. Driver Installation

A. New Hardware Found

When the graphics card is inserted into your computer for the first time, the operating system will detect the graphics card automatically and display a New Hardware Found message. The following are step-by-step installation instructions.

Step 1: Found New Hardware Wizard: Video Controller (VGA Compatible)

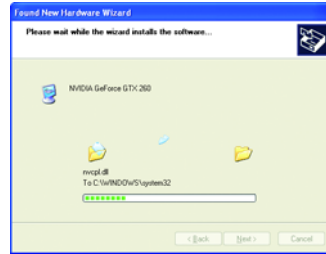
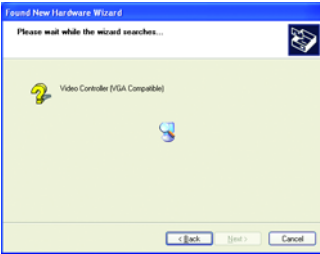


Click the **Next** button to install the driver. (Insert the driver CD-ROM that came with your graphics card.)

Or click the **Cancel** button to install the driver from the autorun window.

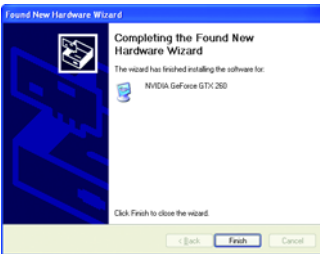
Step 2: Found New Hardware Wizard: Searching and Installing

The wizard will search for the driver and install it automatically.



Step 3: Found New Hardware Wizard: Finish

Click the **Finish** button to finish the installation.



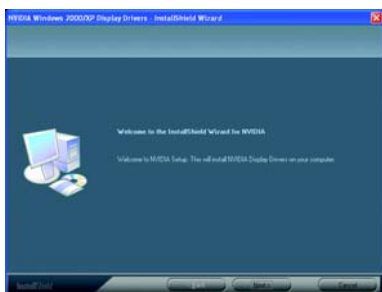
B. Driver Installation (Autorun Window)

Insert the driver CD-ROM into your CD-ROM drive. The autorun window will appear. If it does not show up, please run "D:\setup.exe".

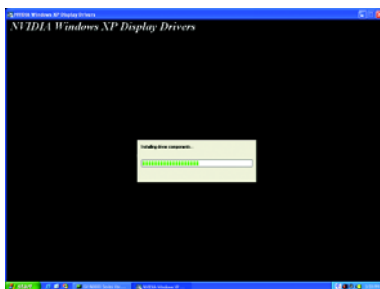


Step 1.

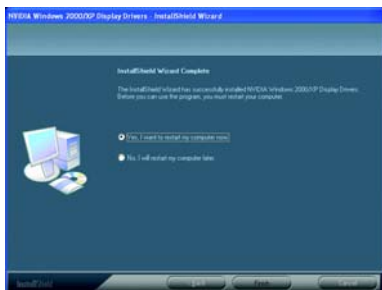
When the autorun window shows up, click the **Install Display Driver** item.



Step 2. Click the **Next** button.



The system is installing the components.



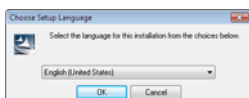
Step 3. Click the **Finish** button to restart the computer. Then the driver installation is completed.

3.1.4. GIGABYTE Gamer HUD Lite on Driver Disk (for GV-N26OC-896H)



Step 1:

Click the **GIGABYTE Gamer HUD Lite** item.



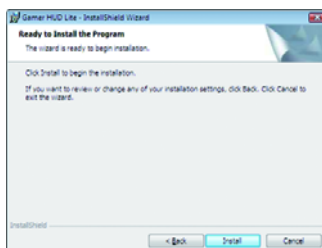
Step 2:

Choose the language for the installation and click the **OK** button.



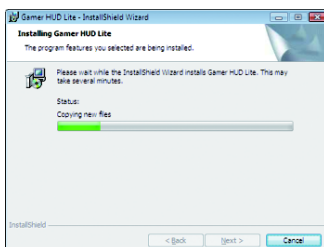
Step 3:

Click the **Next** button.

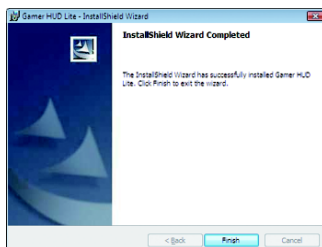


Step 4:

Click the **Install** button.



The system is installing the components.

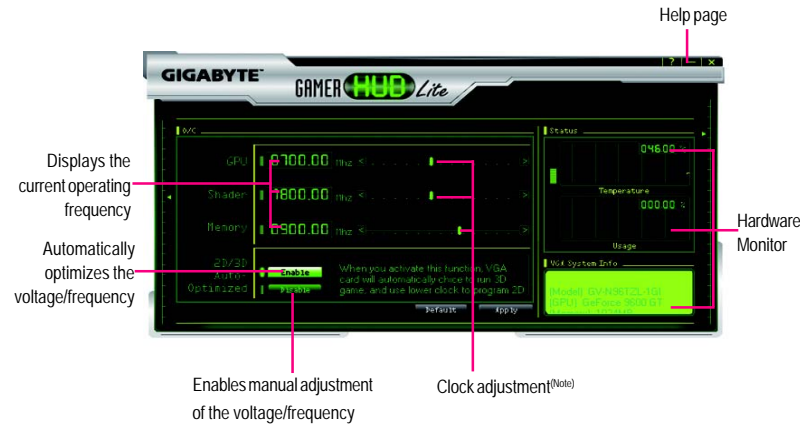


Step 5:


Click the **Finish** button. Then the installation of the GIGABYTE Gamer HUD Lite is completed.

GIGABYTE Gamer HUD Lite

The GIGABYTE Gamer HUD Lite allows you to adjust the voltage of your graphics card and the working frequency of the GPU, Shader, and video memory.




Button	Function
Default ^(Note)	Allows you to load the default settings
Apply ^(Note)	Allows you to save the values you adjust
Enable	Lets the utility optimize the voltage and GPU/Shader/memory frequency settings
Disable	Allows you to manually configure the voltage and GPU/Shader/Memory frequency settings
Hardware Monitor	Displays the GPU usage and temperature, the GPU usage/thermal curve, and your graphics card information
?	Opens Help page

 **CAUTION** Incorrectly doing overclock/overvoltage may result in damage to your system and reduce the useful life of the system components.

(Note) This item is configurable only if **2D/3D Auto-Optimized** is set to **Disable**.

3.1.5. Taskbar Icon

After installing the graphics card driver, you will find an NVIDIA icon  in the notification area. Click this icon to open the control panel.



Right click the NVIDIA icon to enter the **NVIDIA Control Center**.



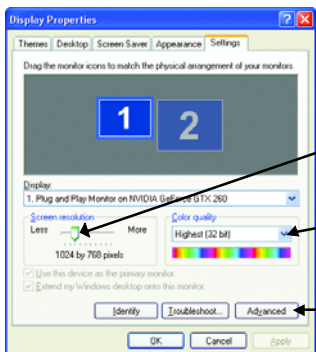
You can adjust the properties of the graphics card here.

3.1.6. Display Properties Pages

To access **Display Properties** pages, right-click on desktop and then select **Properties**. The **Display Properties** dialog box shows the information of display adapter, color, the range of display area, and the refresh rate.

Settings (Resolutions and Color Quality for Windows)

You may adjust the screen resolution and color quality settings in this dialog box.



You can move the slider to change the resolution.

You can click the item to change the color quality.

Click the **Advanced** button for advanced settings

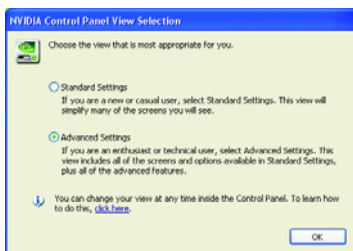
NVIDIA Control Panel

After pressing the **Advanced** button in **Settings**, you'll see the **Plug and Play Monitor and NVIDIA GeForce GTX 260 Properties** dialog box. Click the **GeForce GTX 260** tab. (You can also click the NVIDIA icon in the notification area and select **NVIDIA Control Panel**.)



Access the **GeForce GTX 260** tab page to launch the NVIDIA Control Panel.

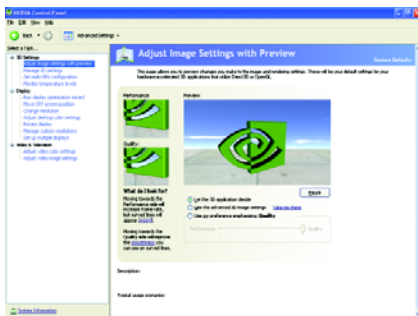
- All of the NVIDIA control panels have been consolidated into a single application, the NVIDIA Control Panel. Click the **Start the NVIDIA Control Panel** button to open the NVIDIA Control Panel.



Select the view of the NVIDIA Control Panel that is most appropriate for you.

- Standard Settings
- Advanced Settings

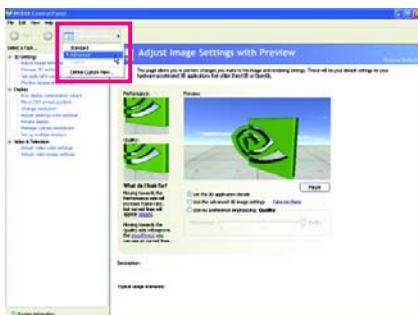
The following pages provide details on configuring advanced settings.



In the NVIDIA Control Panel, select a category to alter specific NVIDIA display settings.

The categories are:

- 3D Settings
- Display
- Video & Television



In the NVIDIA Control Panel, change a view if you want.

The supported modes are:

- Standard
- Advanced
- Custom

3D Settings

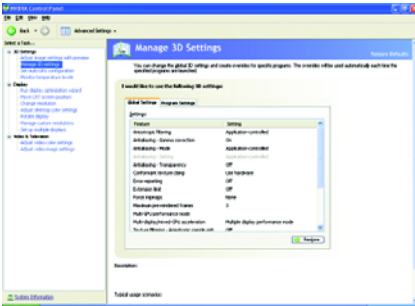
Tasks in the 3D Settings pages allow you to do the following:

- Change the image and rendering settings of your 3D applications and games that utilize Direct3D and OpenGL technology.
- Override the shipped clocked frequencies of your GPU and GPU memory to increase your GPU performance.
- Assign specific 3D settings to a game so that these settings automatically load when a game is launched.



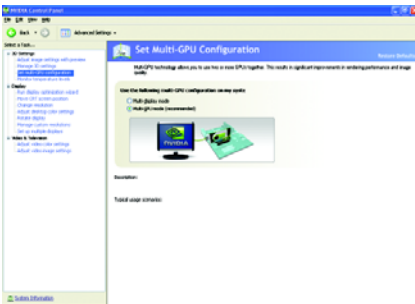
■ Adjust Image Settings with Preview

If you are unfamiliar with 3D technology or not an advanced graphics user, use the Adjust Image Settings with Preview page to preview any changes you make for improved image quality and rendering.



■ Manage 3D Settings ^(Note 1)

The Manage 3D Settings page enables you to establish default 3D settings to use for all your Direct3D or OpenGL applications and to establish a unique set of 3D settings for a particular game or application.



■ Set Multi-GPU Configuration ^(Note 2)

Multi-GPU technology allows you to use two or more GPUs together. This results in significant improvements in rendering performance and image quality.

Note:

It is recommended that you set to **Multi-GPU mode** to enhance the graphics card's performance.

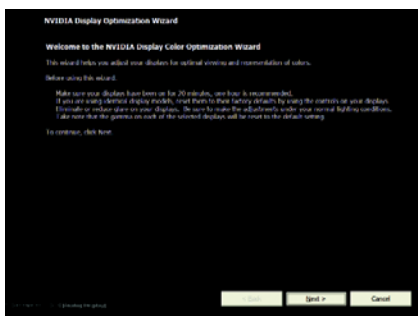
(Note 1) This item is present only in Advanced view mode.

(Note 2) This item will show up when you install two graphics cards with the same model name and from the same vendor.

Display

A variety of display features enable you to further manipulate and configure your display settings to optimize the use of your displays. Tasks in the Display pages allow you to do the following:

- Run display optimization wizard
- Move CRT screen position
- Change resolution
- Adjust desktop color settings
- Rotate display
- Manage custom resolutions ^(Note 1)
- Run multiple display wizard ^(Note 2)
- Set up multiple displays



■ Run Display Optimization Wizard

This wizard helps you adjust your displays for optimal viewing and representation of colors.

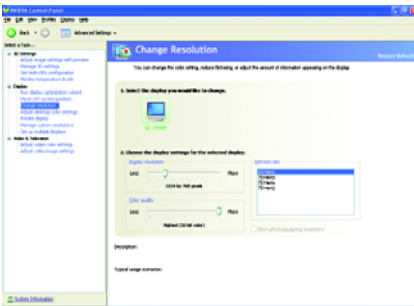
(Note 1) This item is present only in Advanced view mode.

(Note 2) This item will show up when you connect two monitors.



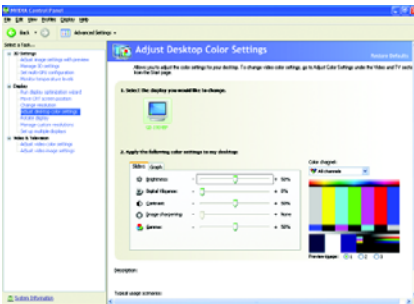
■ Move CRT Screen Position

You can use your mouse (by clicking on the arrow keys on this page) or the arrow keys on your keyboard to adjust the position of your desktop to better fit your display. This is a useful alternative to using the controls (buttons) on your actual physical display.



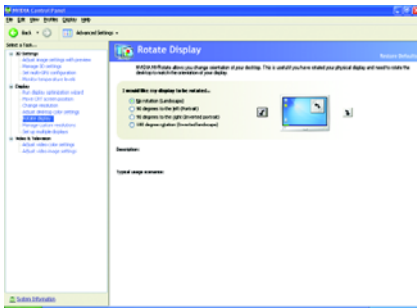
■ Change Resolution

Using the Change Resolution controls, you can change the color setting, reduce screen flickering, or adjust the amount of information appearing on your display.



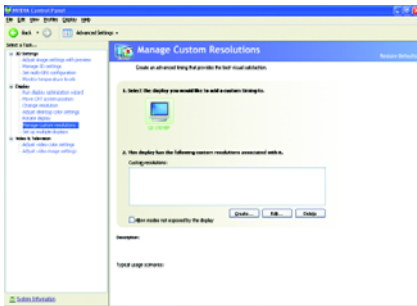
■ Adjust Desktop Color Settings

Use this page to set the contrast, sharpness, and color depth (Digital Vibrance) of the images on your desktop. These changes will not affect any video playback. To change video color settings, go to Adjust Video Color Settings under the Video and TV section from the Start page.



■ Rotate Display

The NVIDIA Rotate features enable you to change the orientation of your desktop to portrait, landscape, and inverted modes. This is useful if you have rotated your physical display and need to rotate the desktop to match the orientation of your display.



■ Manage Custom Resolutions ^(Note 1)

If you are an advanced user, you can create custom timing modes with the width, height, bit-color depth, and the refresh rate etc. The Advanced Timing page enables you to adjust timings for your graphics card in order to support a variety of different display timings for ultimate flexibility for analog CRT and DVI connections. You can use the advanced Change Resolution Attributes page to view custom display modes you have saved in the Create Custom Timings page.

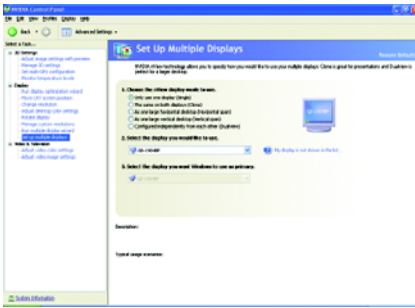


■ Run Multiple Display Wizard ^(Note 2)

This wizard will help you enable and customize your multi-display setup.

(Note 1) This item is present only in Advanced view mode.

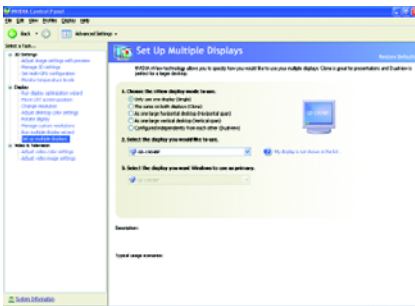
(Note 2) This item will show up when you connect two monitors.



- **Set up Multiple Displays**
NVIDIA nView technology enables you to view your desktop in one of several multi-display modes to make the best use of the displays (monitors) that are connected to your computer.

Dual-Monitor Setup

You can set the display to output from two monitors on the **Set up Multiple Displays** page.



Select your preferred nView display modes here.

- Only use one display (Single)
- The same on both display (Clone)
- As one large horizontal desktop (Horizontal span)
- As one large vertical desktop (Vertical span)
- Configured independently from each other (Dualview)

(1) The same on both display (Clone)

Clone mode indicates that both displays in the display pair show images of the same desktop.



Clone Mode

(2) As one large horizontal desktop (Horizontal span)

Horizontal Span mode indicates that both displays in the display pair function as one wide virtual desktop. The width of each display is half the width of the total virtual desktop width.



Horizontal Span Mode

(3) As one large vertical desktop (Vertical span)

Vertical Span mode indicates that both displays in the display pair function as one tall virtual desktop. The height of each display is half the height of the total virtual desktop height.



Vertical Span Mode

(4) Configured independently from each other (Dualview)

Dualview mode indicates that both displays in the display pair function as one virtual desktop. Unlike Horizontal Span or Vertical Span mode, Dualview treats each display as a separate device. This means that the taskbar will not be stretched across displays and 3D applications are not accelerated as efficiently as when the application spans displays.



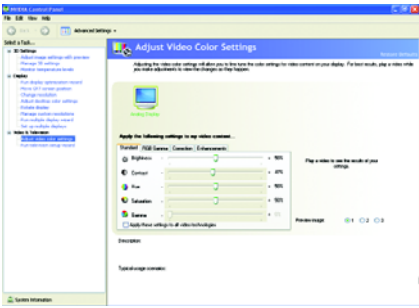
Dualview Mode

Display Matrix	Model	GV-N26-896H-B	GV-N26OC-896H-B	GV-N25OC-896H
	CRT+TV	Yes	Yes	Yes
	CRT+DVI	Yes	Yes	Yes
	DVI+TV	Yes	Yes	Yes
	DVI+TV+CRT	No	No	No
	DVI +DVI	Yes	Yes	Yes
	CRT+CRT	Yes	Yes	Yes

Video & Television

Video and television features are similar to those for analog and digital displays and include features specific to television and HDTV (high definition television) technology for optimal viewing. Tasks in the Video & Television pages allow you to do the following:

- Adjust your television picture quality and video color settings for the best possible viewing in its environment.
- Change the position and size of the desktop video to best fit your television or HDTV (high definition television) screen.
- Change the signal format to use for your standard television or HDTV as well as change country-specific signal or the HDTV format.
- Enable full screen video mirroring.



■ Adjust Video Color Settings

Use the controls on this page to fine tune the color settings for video content on your display. Select one of the test images to monitor your changes. For best results, play a video while you make adjustment to view the changes as they happen.



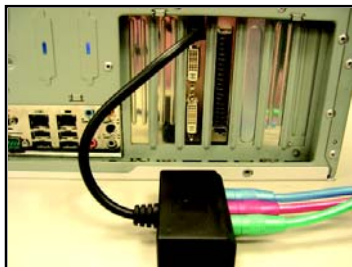
■ Run Television Setup Wizard ^(Note)

The wizard will guide you through the steps to configure your television for use with your computer.

(Note) This item will show up when you connect a television.

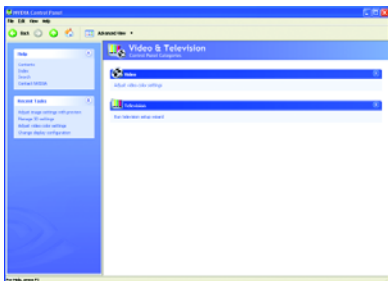
HDTV Setup (optional item)

Follow the steps below to connect an HDTV to your system using the included component video adapter.



Step 1:

Connect the HDTV component cable to the adapter according to the corresponding color. (Y= Green, Pr= Red, Pb= Blue). Connect the TV Out cable from the adapter to the TV Out port on your graphics card.



Step 2:

Go to NVIDIA Control Panel. Select the **Run television setup wizard** ^(Note) item in the **Video & Television** page.



Step 3:

When the Television Setup Wizard appears, click **Next**.



Step 4:

Select **Component** in the **Connector Type** screen.



Step 5:

Select a definition type for your HDTV (depending on the specifications of your HDTV) and click **Next**.

(Note) This item will show up when you connect a television.



Step 6:

Click the **Preview** button to preview the selected settings. Then click **Next**.




Step 7:

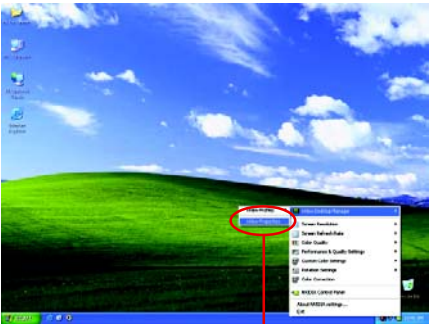
Click **Finish** to apply the new television settings.

3.1.7. nView Properties Pages ^(Note)

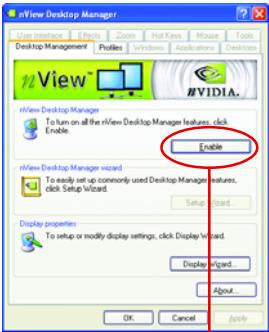
nView is a set of desktop tools designed to help you be more productive when using your graphics card. With **nView** you can set up multiple desktops to work with your applications. Multiple desktops give you extra desktop areas on which to run your applications so you won't have to crowd several open application windows on one desktop.

Enabling the nView Desktop Manager Features:

Click the NVIDIA icon  in the notification area and select **nView Properties** under **nView Desktop Manager**. Click the **Enable** button to turn on all the nView Desktop Manager features.



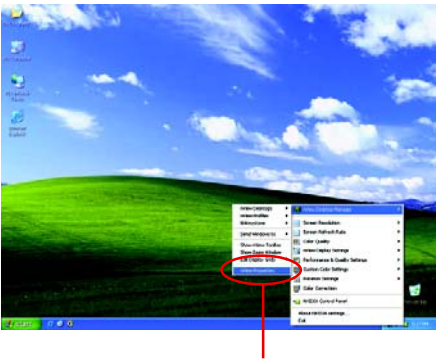
Step 1: Click **nView Properties**.



Step 2: Click **Enable**.

Accessing the nView Properties Pages:

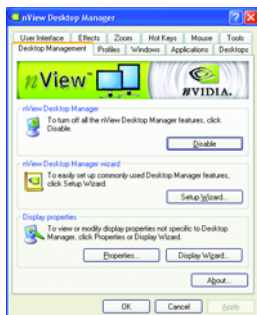
To access the **nView** properties page, you can click the NVIDIA icon  in the notification area and select **nView Properties** under **nView Desktop Manager**.



Click the item to start configuring nView features.

(Note) This item will show up when you connect two monitors.

nView Desktop Management properties



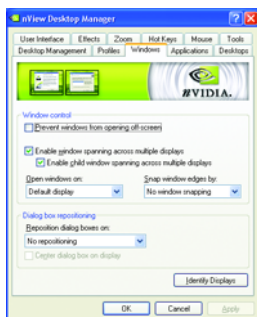
- This tab contains information about the nView Desktop Manager. The Setup Wizard can also be accessed from this tab.

nView Profiles properties



- This tab contains a record of all nView display settings for easy software setup.

nView Windows properties



- This tab allows you to control window and dialog box placement when using multiple monitors.

nView Applications properties



- This tab allows you to control nView settings depending on different applications.

nView Desktops properties



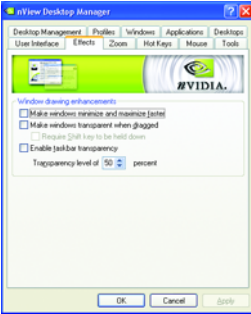
- This tab allows you to create up to 32 unique desktops.

nView User Interface properties



- This tab allows for customization of the nView user interface.

nView Effects properties



- This tab provides special windows effects that you can apply to your applications.

nView Zoom properties



- This tab provides dynamic zoom functionality on the desktop. Also enable full screen video playback via the video mirroring control button.

nView Hot Keys properties



- This tab lets you perform various actions with shortcut keys or key combinations.

nView Mouse properties



- This tab can modify and extend mouse behavior with kinematic actions.

nView Tools properties



- This tab can improve nView functionality for mobile and desktop users.

4. Troubleshooting Tips

The following troubleshooting tips may help if you experience problems. Contact your dealer or GIGABYTE for more advanced troubleshooting information.

- Check that the card is seated properly in the PCI Express x16 slot.
- Ensure that the display cable is securely fastened to the card's display connector.
- Make sure that the monitor and computer are plugged in and receiving power.
- If necessary, disable any built-in graphics capabilities on your motherboard. For more information, consult your computer's manual or manufacturer.
(NOTE: Some manufacturers do not allow the built-in graphics to be disabled or to become the secondary display.)
- Make sure you selected the appropriate display device and graphics card when you install the graphics driver.
- Restart your computer.
Press <F8> on your keyboard after system starts up. When the Windows Advanced Options Menu appears, select Safe Mode and press <Enter>.
After getting into Safe Mode, in Device Manager check whether the driver for the graphics card is correct.
- For more assistance, use the Troubleshooting Guide located in the Windows Help or contact your computer manufacturer.



If necessary, adjust your monitor's setting using monitor's adjust panel to make the screen look focused, crisp, and sharp. (Please refer to the monitor's manual.)

5. Appendix

5.1. How to Reflash the BIOS in MS-DOS Mode

1. Extract the downloaded Zip file to your hard disk(s) or floppy disk. This procedure assumes drive A.
2. Restart the computer in MS-DOS mode. (You may need a startup disk to restart the computer in MS-DOS mode.)
3. Change the command prompt to A:\>.
4. To back up the current BIOS, at the A:\> prompt, type `[BIOS flash utility name] -s [BIOS file name]` (**example: gvf18 -s 268HB.f1**) and press **Enter**.
5. To flash BIOS, at the A:\> prompt, type `[BIOS flash utility name] -p [BIOS file name]` (**example: gvf18 -p 268HB.f2**) and press **Enter**.
6. Wait until it's done, then restart your computer.

5.2. Resolutions and Color Depth Table (In Windows XP)

GeForce GTX 260 Single Display Standard Modes

Display Screen Resolution	Refresh Rate (Hz)	Color Depth (bpp)		
		8bpp(256 color) Standard mode	16bpp(65K color) High mode	32bpp(16.7M) True mode
320 x 200	60-75	✓	✓	✓
320 x 240	60-75	✓	✓	✓
400 x 300	60-75	✓	✓	✓
480 x 360	60-75	✓	✓	✓
512 x 384	60-75	✓	✓	✓
640 x 400 (16:10)	60-75	✓	✓	✓
640 x 480	60-240	✓	✓	✓
720 x 480	60	✓	✓	✓
720 x 576	50-60	✓	✓	✓
800 x 600	60-240	✓	✓	✓
848 x 480	60-240	✓	✓	✓
960 x 600 (16:10)	60-240	✓	✓	✓
1024 x 768	60-200	✓	✓	✓
	240	✓	✓	X
1088 x 612 (16:9)	60-200	✓	✓	✓
	240	✓	✓	X
1152 x 864	60-170	✓	✓	✓
	200	✓	✓	X
1280 x 720 (16:9)	60-150	✓	✓	✓
	170	✓	✓	X
1280 x 768	60-150	✓	✓	✓
	170	✓	✓	X
1280 x 800	60-150	✓	✓	✓
	170	✓	✓	X
1280 x 960	60-150	✓	✓	✓
	170	✓	✓	X
1280 x 1024	60-150	✓	✓	✓
	170	✓	✓	X
1360 x 768	60-150	✓	✓	✓
	170	✓	✓	X
1600 x 900 (16:9)	60-120	✓	✓	✓
	140-150	✓	✓	X
1600 x 1024	60-100	✓	✓	✓
	120	✓	✓	X

To be continued...

Display Screen Resolution	Refresh Rate (Hz)	Color Depth (bpp)		
		8bpp(256 color) Standard mode	16bpp(65K color) High mode	32bpp(16.7M) True mode
1600 x 1200	60~100	✓	✓	✓
	120	✓	✓	X
1920 x 1080 (16:9)	60~85	✓	✓	✓
	100	✓	✓	X
1920 x 1200 (16:10)	60~85	✓	✓	✓
	100	✓	✓	X
1920 x 1440	60~85	✓	✓	✓
2048 x 1536	60~85	✓	✓	✓
2560 x 1600 (Dual-Link)	60	✓	✓	✓

* This table is for reference only. The actual resolutions supported depend on the monitor you use.

5.3. Regulatory Statements

Regulatory Notices

This document must not be copied without our written permission, and the contents there of must not be imparted to a third party nor be used for any unauthorized purpose. Contravention will be prosecuted. We believe that the information contained herein was accurate in all respects at the time of printing. GIGABYTE cannot, however, assume any responsibility for errors or omissions in this text. Also note that the information in this document is subject to change without notice and should not be construed as a commitment by GIGABYTE.

Our Commitment to Preserving the Environment

In addition to high-efficiency performance, all GIGABYTE motherboards fulfill European Union regulations for RoHS (Restriction of Certain Hazardous Substances in Electrical and Electronic Equipment) and WEEE (Waste Electrical and Electronic Equipment) environmental directives, as well as most major worldwide safety requirements. To prevent releases of harmful substances into the environment and to maximize the use of our natural resources, GIGABYTE provides the following information on how you can responsibly recycle or reuse most of the materials in your "end of life" product.

Restriction of Hazardous Substances (RoHS) Directive Statement

GIGABYTE products have not intended to add and safe from hazardous substances (Cd, Pb, Hg, Cr+6, PBDE and PBB). The parts and components have been carefully selected to meet RoHS requirement. Moreover, we at GIGABYTE are continuing our efforts to develop products that do not use internationally banned toxic chemicals.

Waste Electrical & Electronic Equipment (WEEE) Directive Statement

GIGABYTE will fulfill the national laws as interpreted from the 2002/96/EC WEEE (Waste Electrical and Electronic Equipment) directive. The WEEE Directive specifies the treatment, collection, recycling and disposal of electric and electronic devices and their components. Under the Directive, used equipment must be marked, collected separately, and disposed of properly.

WEEE Symbol Statement



The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local government office, your household waste disposal service or where you purchased the product for details of environmentally safe recycling.

- When your electrical or electronic equipment is no longer useful to you, "take it back" to your local or regional waste collection administration for recycling.
- If you need further assistance in recycling, reusing in your "end of life" product, you may contact us at the Customer Care number listed in your product's user's manual and we will be glad to help you with your effort.

Finally, we suggest that you practice other environmentally friendly actions by understanding and using the energy-saving features of this product (where applicable), recycling the inner and outer packaging (including shipping containers) this product was delivered in, and by disposing of or recycling used batteries properly. With your help, we can reduce the amount of natural resources needed to produce electrical and electronic equipment, minimize the use of landfills for the disposal of "end of life" products, and generally improve our quality of life by ensuring that potentially hazardous substances are not released into the environment and are disposed of properly.

China Restriction of Hazardous Substances Table

The following table is supplied in compliance with China's Restriction of Hazardous Substances (China RoHS) requirements:



关于符合中国《电子信息产品污染控制管理办法》的声明
Management Methods on Control of Pollution from Electronic Information Products
(China RoHS Declaration)

产品中有毒有害物质或元素的名称及含量
Hazardous Substances Table

部件名称 (Parts)	有毒有害物质或元素 (Hazardous Substances)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
PCB板 PCB	○	○	○	○	○	○
结构件及风扇 Mechanical parts and Fan	×	○	○	○	○	○
芯片及其他主动零件 Chip and other Active components	×	○	○	○	○	○
连接器 Connectors	×	○	○	○	○	○
被动电子元件 Passive Components	×	○	○	○	○	○
线材 Cables	○	○	○	○	○	○
焊接金属 Soldering metal	○	○	○	○	○	○
助焊剂、散热膏、标签及其他耗材 Flux, Solder Paste, Label and other Consumable Materials	○	○	○	○	○	○
○:表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求以下。 Indicates that this hazardous substance contained in all homogenous materials of this part is below the limit requirement SJ/T 11363-2006						
×:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。 Indicates that this hazardous substance contained in at least one of the homogenous materials of this part is above the limit requirement in SJ/T 11363-2006						
对销售之日的所售产品, 本表显示我公司供应链的电子信息产品可能包含这些物质。注意: 在所售产品中可能会也可能不会含有所有列出的部件。 This table shows where these substances may be found in the supply chain of our electronic information products, as of the date of the sale of the enclosed products. Note that some of the component types listed above may or may not be a part of the enclosed product.						

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]